

### Explanation of the 2010 Urban Area to Place Relationship File:

The 2010 Urban Area to Place Relationship File provides relationships between the 2010 urban areas and the 2010 places. Urban areas include both urbanized areas (UA) and urban clusters (UC), and areas outside urban areas are considered rural. This list can be utilized to see if a place is urban, rural, or contains both urban and rural area. Each record in the relationship file represents one polygon that is formed when the 2010 urban areas overlay the 2010 places. The polygon may represent the intersection of a 2010 urban area and a place or the portion of the place that does not contain a 2010 urban area. In addition, since places are not a wall-to-wall coverage across the U.S., the polygon may represent the area of a 2010 urban area that does not intersect a place. It is important to note that all population and housing unit figures given in the file are from the 2010 Census population count.

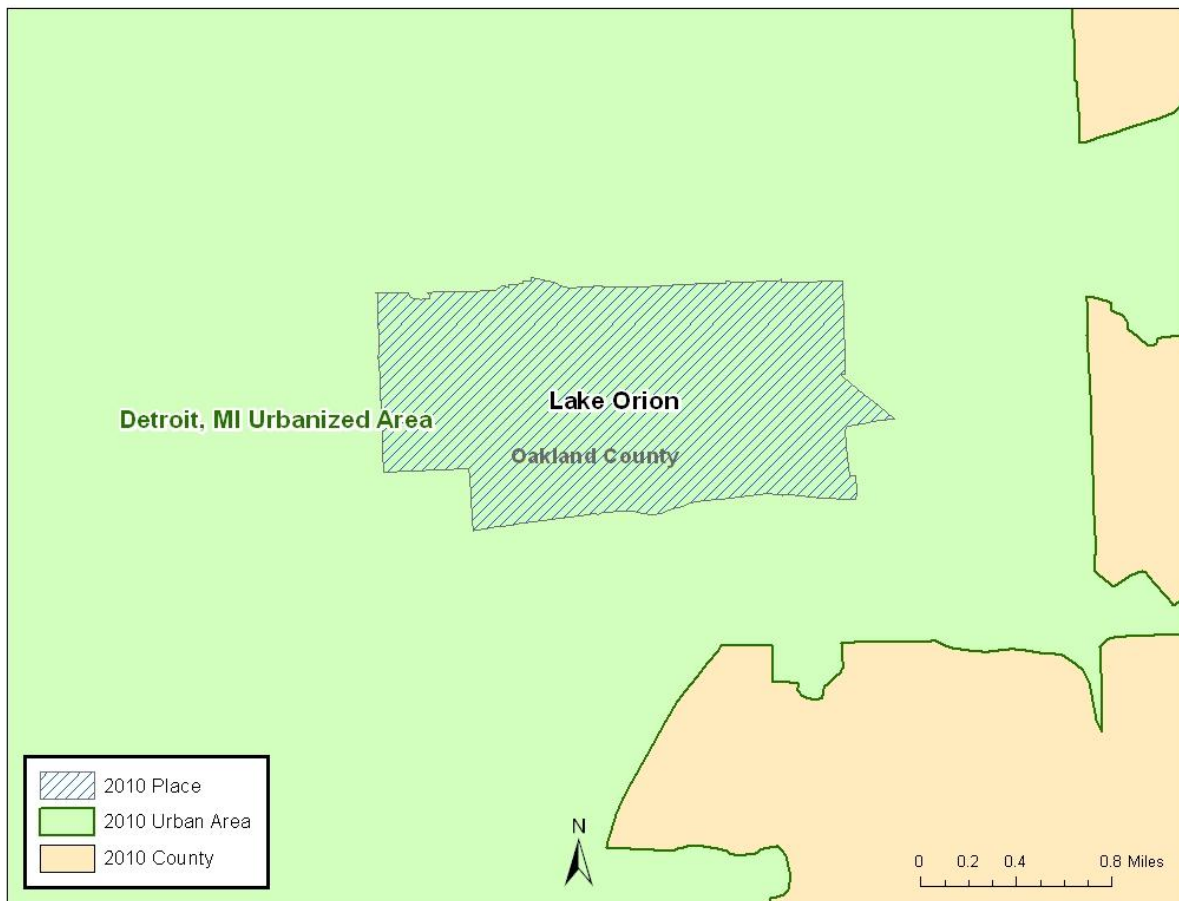
### Explanation of Urban Area to Place Relationship File: Example 1

This example describes when a 2010 place falls wholly within a 2010 urban area. In this example, Lake Orion village is in blue below and falls wholly within the Detroit, MI UA, which is outlined in green. There is only one record for Lake Orion village. The 2010 population for this relationship record is 2,973 (POPPT) and is equal to the 2010 population of 2,973 for Lake Orion village (PLPOP). Likewise, the 2010 housing unit count for both the relationship record (HUPT) and the place (PLHU) is 1,483. Therefore, the percentage of the population in Lake Orion village that also lives within the Detroit, MI UA is 100 (PLPOPPCT). Although Lake Orion village falls entirely within the Detroit, MI UA, the Detroit, MI UA is bigger than the Lake Orion village. The total population for the Detroit, MI UA is 3,734,090 (UAPOP) but only 0.08% (UAPOPPCT) of those living within the UA, also live within Lake Orion village.

The Detroit, MI UA contains additional places and areas outside of a place, but those records are not shown below.

Field	Value
UA	23824
UENAME	Detroit, MI Urbanized Area
STATE	26
PLACE	44940
PLNAME	Lake Orion village
CLASSFP	C1
GEOID	2644940
POPPT	2973
HUPT	1483
AREAPT	3377609
AREALANDPT	2045564
UAPOP	3734090
UAHU	1653116
UAAREA	3555052429
UAAREALAND	3463234750
PLPOP	2973
PLHU	1483

Field	Value
PLAREA	3377609
PLAREALAND	2045564
UAPOPPCT	0.08
UAHUPCT	0.09
UAAREAPCT	0.1
UAAREALANDPCT	0.06
PLPOPPCT	100
PLHUPCT	100
PLAREAPCT	100
PLAREALANDPCT	100

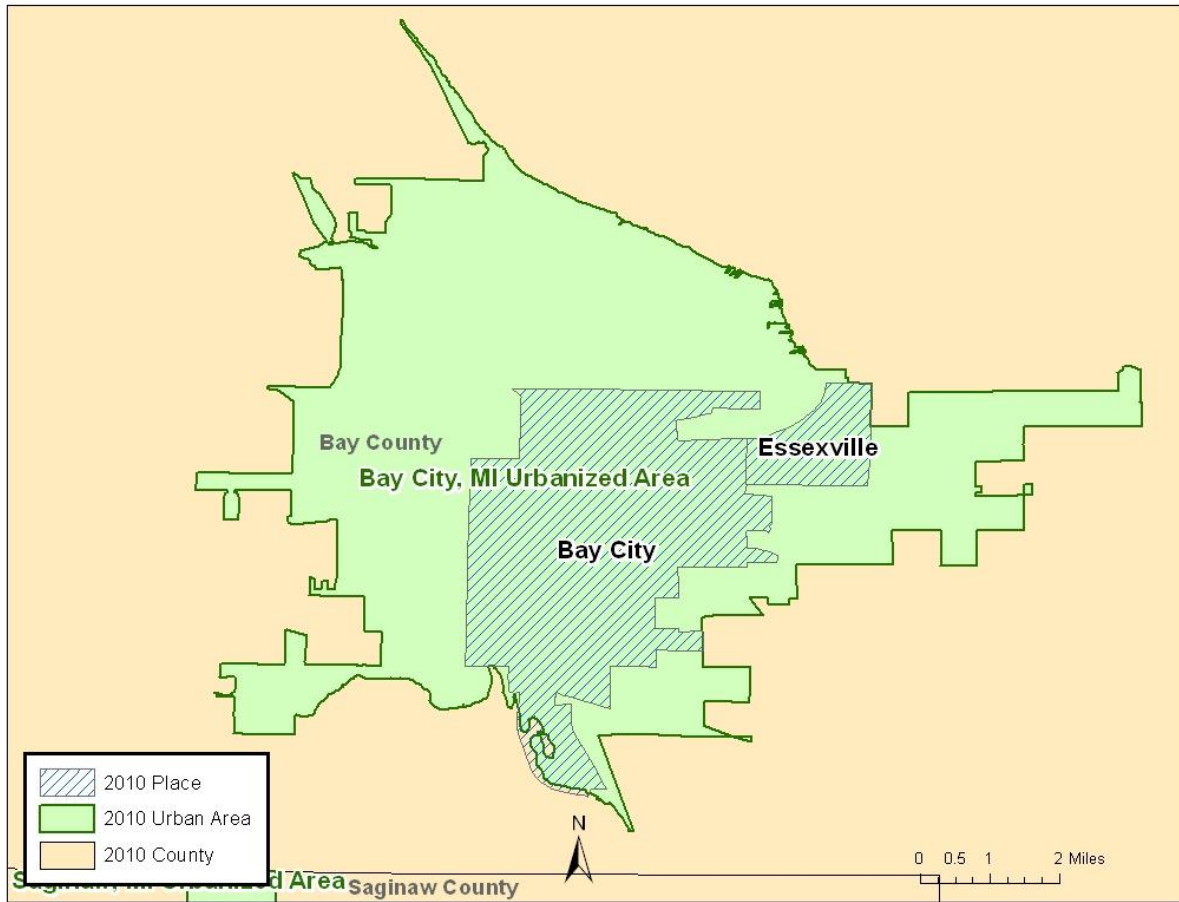


## Explanation of Urban Area to Place Relationship File: Example 2

This example describes when a 2010 urban area contains more than one place. In this example, the Bay City, MI UA is in green below and contains two places: Bay City city and Essexville city, which are in blue below. The first record describes the relationship between the Bay City, MI UA and Bay City city. The 2010 population living within the Bay City, MI UA is 70,585 (UAPOP) but only 34,932 (POPPT) also live within Bay City city. This represents 49.49% of the total population (UAPOPCT) for the Bay City, MI UA. The second record represents the area of Bay City city that falls outside of the Bay City, MI UA. A small portion of the city falls outside of the urban area, but the population for this area is 0 (POPPT). The third record describes the relationship between the Bay City, MI UA and Essexville city. The 2010 population living in the Bay City, MI UA and in Essexville city is 3,478 (POPPT) and represents 4.93% (UAPOPCT) of the total population in the Bay City, MI UA. Furthermore, since Essexville city falls wholly within the urban area, 100% (PLPOPCT) of the total population in the city lives in the Bay City, MI UA. Finally, the fourth record represents the area of the Bay City, MI UA that does not intersect a place and is designated with the name 'Not in a census designated place or incorporated place' (PLNAME). According to the relationship file, 32,175 (POPPT) people live within the urban area but outside of a place boundary.

Field	Value 1	Value 2	Value 3	Value 4
UA	05869	99999	05869	05869
UATYPE	Bay City, MI Urbanized Area	Not in a 2010 urban area	Bay City, MI Urbanized Area	Bay City, MI Urbanized Area
STATE	26	26	26	26
PLACE	06020	06020	26420	99999
PLNAME	Bay City city	Bay City city	Essexville city	Not in a census designated place or incorporated place
CLASSFP	C5	C5	C5	
GEOID	2606020	2606020	2626420	2699999
POPPT	34932	0	3478	32175
HUPT	15923	0	1527	15063
AREAPT	28558354	463857	3643941	76414706
AREALANDPT	26330807	0	3359825	74757888
UAPOP	70585		70585	70585
UAHU	32513		32513	32513
UAAREA	108617001		108617001	108617001
UAAREALAND	104448520		104448520	104448520
PLPOP	34932	34932	3478	
PLHU	15923	15923	1527	
PLAREA	29022211	29022211	3643941	
PLAREALAND	26330807	26330807	3359825	
UAPOPCT	49.49		4.93	45.58
UAHUPCT	48.97		4.7	46.33
UAAREAPCT	26.28		3.35	70.35
UAAREALANDPCT	25.21		3.22	71.57

Field	Value 1	Value 2	Value 3	Value 4
PLPOPPCT	100	0	100	
PLHUPCT	100	0	100	
PLAREAPCT	98.4	1.60	100	
PLAREALANDPCT	100	0	100	



### Explanation of Urban Area to Place Relationship File: Example 3

This example describes the relationship between a 2010 urban area and its 2010 place. Harrison city, in blue below, falls partly inside the Harrison, MI UC. There are three records in the file for this relationship. The first record describes the polygon that is created when the urban area and the place intersect. The population for this polygon is 1,674 (POPPT) and the housing unit count is 1,081 (HUPT). Furthermore, the population shown by the record represents 46.64% of the total population living within the Harrison, MI UC (UAPOPCT) and 79.19% of the total population living within Harrison city (PLPOPCT). The second record, describes the polygon that is part of Harrison city, but not part of the Harrison, MI UC. The record is designated with the name 'Not in a 2010 urban area' (UATYPE). The population for the record is 440 (POPPT) and represents 20.81% of the total population for Harrison city. This record also represents the rural population in the City. Finally, the third record represents the part of Harrison, MI UC that falls outside of Harrison city and is designated with 'Not in a census designated place or incorporated place' in the PLNAME field. The population for those living in the Harrison, MI UC but outside of the incorporated place boundary is 1,915 (POPPT) and represents 53.36% of the total population living within Harrison, MI UC (UAPOPCT).

Field	Value 1	Value 2	Value 3
UA	37135	99999	37135
UATYPE	Harrison, MI Urban Cluster	Not in a 2010 urban area	Harrison, MI Urban Cluster
STATE	26	26	26
PLACE	36800	36800	99999
PLNAME	Harrison city	Harrison city	Not in a census designated place or incorporated place
CLASSFP	C5	C5	
GEOID	2636800	2636800	2699999
POPPT	1674	440	1915
HUPT	1081	225	1281
AREAPT	4326796	6113274	4719690
AREALANDPT	3635646	5996306	4690428
UAPOP	3589		3589
UAHU	2362		2362
UAAREA	9046486		9046486
UAAREALAND	8326074		8326074
PLPOP	2114	2114	
PLHU	1306	1306	
PLAREA	10440070	10440070	
PLAREALAND	9631952	9631952	
UAPOPCT	46.64		53.36
UAHUPCT	45.77		54.23
UAAREAPCT	47.83		52.17
UAAREALANDPCT	43.67		56.33
PLPOPCT	79.19	20.81	

Field	Value 1	Value 2	Value 3
PLHUPCT	82.77	17.23	
PLAREAPCT	41.44	58.56	
PLAREALANDPCT	37.75	62.25	

